

LAGUNA LASER

Cutting Thickness and Speed of Fiber Laser

Material	Thickness (mm)	500W	1000W	1500W	2000W	3000W	4000W
		optimum cutting speed m/min	optimum cutting speed m/min	optimum cutting speed m/min	optimum cutting speed m/min	optimum cutting speed m/min	optimum cutting speed m/min
Carbon steel (O ₂)	0.2	-	-	-	-	-	-
	0.4	-	-	-	-	-	-
	0.6	-	-	-	-	-	-
	0.8	-	-	-	-	-	-
	1	10	16	24	27	30	35
	1.5	-	-	-	-	-	-
	2	6	10	12	15	21	24
	2.5	-	-	-	-	-	-
	3	3	5	6.5	8	12	15
	4	1.5	2.5	6	6.5	10	13
	5	0.8	2	5.5	6	9	11
	6	0.6	1.5	4	4.5	7.5	9
	8	-	1	3	3.5	6	7
	10	-	0.8	2.5	3	4.5	6
	12	-	0.5	1.8	2.4	3.5	5
	16	-	-	-	-	1.8	2.5
20	-	-	-	-	0.6	1	
22	-	-	-	-	-	0.5	
24	-	-	-	-	-	-	
stainless steel (Air)	0.5	-	-	-	-	-	-
	0.6	-	-	-	-	-	-
	0.8	-	-	-	-	-	-
	1	10	16	24	28	30	35
	1.5	-	-	-	-	-	-
	2	4	6	9	15	21	25
	3	1	2	7.2	9	12	15
	4	-	1.5	4.2	5.4	9	11
	5	-	1	3	4.2	6	8
	6	-	-	2.1	2.7	4.2	5
	8	-	-	1.5	1.8	3	3.5
	10	-	-	0.6	0.9	1.5	1.8
12	-	-	-	-	0.6	1.1	
14	-	-	-	-	-	0.5	
Aluminum plate	0.5	-	-	-	-	-	-
	1	2	6	18	21	24	27
	1.5	-	-	-	-	-	-
	2	1	1	7	9	14	17
	3	0.6	0.6	5.4	6	10	12
	4	-	-	3.6	4.2	7	8
	5	-	-	2.1	2.7	4.2	5.2
	6	-	-	1.2	1.5	2.4	3
8	-	-	-	0.6	1.2	1.5	
10	-	-	-	-	-	0.5	
copper plate	0.5	-	-	-	-	-	-
	1	1	1.5	21	25	28	30
	2	0.6	1	6	7.2	12	15
	3	-	0.5	1.8	2.4	3.6	4.5
	4	-	-	0.6	0.9	1.5	1.8
	5	-	-	-	-	0.5	1
6	-	-	-	-	-	0.5	

Above data is only for reference